

ELEMENT SUMMARY INFORMATION

Element: 5.1.7 Special Navigation Areas of Operation

Purpose of this Element (Air Carrier's responsibility): To ensure continuous navigational reliability in accordance with the Air Carrier's Special Navigation Areas of Operation ("Special Use Airspace") authorizations.

Objective (FAA responsibility): To determine if the air carrier's Special Navigation Areas of Operation process includes safety attributes.

Inputs:

- Special Use Airspace
- Air Traffic Control (ATC)
- Special Navigation Areas of Operation-Qualified Aircraft
- Dispatchers/Flight Followers
- Flight Crew (CEPAC, NOPAC, NAT/Special Navigation Areas of Operation ("Special Use Airspace" – Qualified)
- Operations Specifications Paragraphs B036, B037, B038, B039, and B050

Output:

• Special Navigation Areas of Operation ("Special Use Airspace" operations) are conducted in accordance with the Air Carrier's Operations Specifications

Performance Measures:

- Special Navigation Areas of Operation ("Special Use Airspace" operations) are conducted in accordance with the Air Carrier's Operations Specifications.
- All airplanes remain within the allowable navigational error.

SRR:

- 91.703(a)(4) Operations of civil aircraft of U.S. registry outside of the United States
- 91.705(a)(1) Operations within airspace designated as Minimum Navigation Performance Specification Airspace
- 121.355(a)(1) Equipment for operations on which specialized means of navigation are used
- 121.627 (b) Continuing Flight in Unsafe Conditions

Other CFRs and/or FAA Guidance:

- FAR Amendment 121-89, 37 FR 6462, March 30, 1972 Doppler Radar and Inertial Navigation Systems.
- FAA Order 8300.10, Volume 2, Chapter 76, Section 1, Paragraph 15 "Conduct FAR Part 121/135 Proving/Validation Tests"
- FAA Order 8400.10, Volume 3, Chapter 1, Section 4, Paragraphs 131, 135, and 149
- FAA Order 8400.10, Volume 6, Chapter 2, Section 9, Paragraph 279
- FAA Order 8400.12A "Required Navigation Performance 10 (RNP10) Operations Approval"
- HBAW 95-10 "Guidelines for Operational Approval of Global Positioning System (GPS)..."
- HBAW 98-07 "Approval of Aircraft and Operators when RNP10 is Applied"
- AC 120-33 "Operational Approval of Airborne Long Range Navigational Systems..."
- North Atlantic MNPS Airspace Operations Manual Current Edition

SRR SPECIFIC INFORMATION

SRR	Intent	Inspectors
91.703(a)(4)	To require compliance with FAR 91.705.	Certification: ASI
		Surveillance: ASI
91.705(a)(1)	To prohibit U.Sregistered aircraft from	Certification: ASI
	operating in MNPS airspace without specified	Surveillance: ASI
	navigation equipment.	
121.355(a)(1)	To require approval of navigational	Certification: ASI
	equipment for transoceanic operations.	Surveillance: ASI
121.627 (b)	TBD	Certification: ASI
		Surveillance: ASI

5.1.7 Special Navigation Areas of Operation SECTION 1 - RESPONSIBILITY ATTRIBUTE **Objective:** To determine if there is a clearly identifiable, qualified, and knowledgeable person who is accountable for the quality of the Special Navigation Areas of Operation process. To meet this objective, the inspector will accomplish the following tasks: Identify the person who is responsible for the quality of the Special Navigation Areas of Operation Review the description in the Manual that delineates the duties and responsibilities of the person. Evaluate the person's qualifications and work experience (or resume', if appropriate). Review the appropriate organizational chart. Discuss the Special Navigation Areas of Operation process with the person. To meet this objective, the inspector will answer the following questions: 1. Is there a clearly identifiable person who is answerable for the ☐ YES If yes, provide the quality of the Special Navigation Areas of Operation process? name: \square No If no, explain: Does the person understand the procedures associated with the ☐ YES If no, explain: Special Navigation Areas of Operation process? \square No 3. Does the person understand the controls associated with the Special ☐ YES If no, explain: Navigation Areas of Operation process? □ No 4. Does the person understand the interfaces associated with the \Box YES If no, explain: Special Navigation Areas of Operation process? \square No 5. Does the person understand the process measurements associated ☐ YES If no, explain: with the Special Navigation Areas of Operation process? □ No Is the responsibility of this position clearly documented in the air ☐ YES If no, explain: carrier's Manual(s)? □ No Are the qualification standards for this position clearly documented? ☐ YES If no, explain: □ No 7a Are the qualification standards for this position appropriate for the ☐ YES If no, explain: duties that are assigned? \square No 8. Does the person meet the qualification standards? ☐ YES If no, explain: □ No 9. Does the person acknowledge that he/she has responsibility for the \Box YES If no, explain: Special Navigation Areas of Operation process? \square No 10. Does the person know who has authority to establish and modify the ☐ YES If no, explain: Special Navigation Areas of Operation process? □ No

5.1.7 Special Navigation Areas of Operation				
SECTION 2 – AUTHORITY ATTRIBUTE				
Objective: To determine if there is a clearly identifiable, qualified, and knowledgeable person with the authority to establish and modify the Special Navigation Areas of Operation process.				
To meet this objective, the inspector will accomplish the following tasks:				
1. Identify the person who has the authority to establish or modify the Spoperation process.	pecial Navigation Areas of			
2. Review the description in the Manual that delineates the duties and re	sponsibilities of the person.			
3. Evaluate the person's qualifications and work experience (or resume',	if appropriate).			
4. Review the appropriate organizational chart.				
5. Discuss the Special Navigation Areas of Operation process with the p	erson.			
To meet this objective, the inspector will answer the following questions:				
1. Is there a clearly identifiable person who has authority to establish and modify the air carrier's policies for the Special Navigation Areas of Operation process?	YES If yes, provide the name: NO If no, explain:			
Does the person understand the procedures associated with the Special Navigation Areas of Operation process?	YES If no, explain:			
3. Does the person understand the controls associated with the Special Navigation Areas of Operation process?	YES If no, explain:			
4. Does the person understand the interfaces associated with the Special Navigation Areas of Operation process?	YES If no, explain:			
5. Does the person understand the process measurements associated with the Special Navigation Areas of Operation process?	YES If no, explain:			
6. Is the authority of this position clearly documented in the air carrier's Manual(s)?	YES If no, explain:			
7. Are the qualification standards for this position clearly documented?	YES If no, explain:			
7a Are the qualification standards for this position appropriate for the duties that are assigned?	YES If no, explain:			
8. Does the person meet the qualification standards?	YES If no, explain:			
9. Does the person acknowledge that he/she has authority for the Special Navigation Areas of Operation process?	YES If no, explain:			
10. Does the individual know who has the responsibility for the Special Navigation Areas of Operation process?	YES If no, explain:			
11. Are the procedures for delegation of authority clearly documented for the Special Navigation Areas of Operation process?	YES If no, explain:			

5.1.7 Special Navigation Areas of Operation				
SECTION 3 – PROCEDURES ATTRIBUTE				
Objective: To determine if the air carrier has documented procedures for accomplishing the Special Navigation Areas of Operation process.				
To meet this objective, the inspector will accomplish the following tasks:				
1. Review the documented instructions and information related to the Spoperation process to ensure that they contain who, what, where, whe	<u> </u>			
2. Review the FAA Guidance and Specific Regulatory Requirements (S supplemental information section of this SAI.				
3. Discuss the Special Navigation Areas of Operation process with apprunderstanding of the procedures.	opriate personnel to gain an			
4. Observe the Special Navigation Areas of Operation process to gain a procedures.	n understanding of the			
To meet this objective, the inspector will answer the following questions:				
1. Do written procedures exist to achieve the desired result of the Special Operation process:	al Navigation Areas of			
1.1 Do written procedures exist to ensure that only Special Navigation Areas of Operation ("Special Use Airspace") crews are assigned to these operations?	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
1.2 Do written procedures exist to ensure that only Special Navigation Areas of Operation ("Special Use Airspace") qualified dispatchers are assigned to these operations?	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
1.3 Do written procedures exist to ensure that only Special Navigation Areas of Operation ("Special Use Airspace") trained flight followers are assigned to these operations?	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
1.4 Do written procedures exist to ensure that only airplanes meeting the Special Navigation Areas of Operation ("Special Use Airspace") requirements are assigned to these operations? [SRR 91.703(a)(4) and 91.705]	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
1.5 Do written procedures exist to identify all actions that the aircrew must accomplish prior to and after entering Special Navigation Areas of Operation ("Special Use Airspace")?	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
1.6 Do written procedures exist to determine that airplanes continue to meet Special Navigation Areas of Operation ("Special Use Airspace") navigation tolerances while on these routes?	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
1.7 Do written procedures exist to notify ATC when an airplane is no longer able to comply with Special Navigation Areas of Operation ("Special Use Airspace") requirements?	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
1.8 Do written procedures exist to record instances in which an airplane was no longer able to comply with Special Navigation Areas of Operation ("Special Use Airspace") requirements?	YES If no or N/A, explain:			

5.1.7 Special Navigation Areas of Operation SECTION 3 – PROCEDURES ATTRIBUTE				
2.	Do the procedures identify: who, what, where, when and how?	YES If no, explain:		
3.	Are the procedures in compliance with the CFR(s)?	YES If no, explain:		
4.	Do the procedures conform to other written guidance (E.g., Operations Specifications, FAA Orders, Airworthiness Directives, Advisory Circulars, Handbook Bulletins, Directives, and Manufacturer's Recommendations)?	YES If no, explain: No		
5.	Does the air carrier have the resources to support the written procedures for the Special Navigation Areas of Operation process?	YES If no, explain:		
6.	If alternate procedures exist for use during irregular conditions, do they achieve the same desired results as the primary procedures so that an equivalent level of safety is maintained? (E.g., a manual system used as a result of equipment failure).	☐ YES If no, explain: ☐ NO ☐ N/A, No alternate procedures exist for this element		
7.	Are the procedures published in different manuals relating to the Special Navigation Areas of Operation process consistent?	YES If no, explain: No		
8.	Does the air carrier have a documented method for assessing the impacts of procedural changes to the Special Navigation Areas of Operation process?	YES If no, explain: NO		

5.1.7 Special Navigation Areas of Operation					
SECTION 4 – CONTROL ATTRIBUTE	: 127				
Objective: To determine if checks and restraints are designed into the Spon Operation process to ensure a desired result is achieved.	ecial Navigation Areas of				
To meet this objective, the inspector will accomplish the following tasks:					
1. Review the documented instructions and information related to the Sp Operation process.	ecial Navigation Areas of				
2. Review the FAA Guidance and Specific Regulatory Requirements (SI supplemental information section of this SAI	RR) included in the				
3. Discuss the Special Navigation Areas of Operation process with approunderstanding of the controls.	ppriate personnel to gain an				
4. Observe the Special Navigation Areas of Operation process to gain an	understanding of the controls.				
To meet this objective, the inspector will answer the following questions:					
1. Are the following checks and restraints built into the Special Navigation Areas of Operation process:					
1.1 Is there a system in place that prevents crewmembers that are not qualified in Special Navigation Areas of Operation ("Special Use Airspace") from being assigned to these operations?	☐ YES If no or N/A, explain: ☐ NO ☐ N/A				
1.2 Is there a system in place that prevents dispatchers who are not qualified in Special Navigation Areas of Operation ("Special Use Airspace") from being assigned to these operations?	☐ YES If no or N/A, explain: ☐ NO ☐ N/A				
1.3 Is there a system in place that prevents flight followers who are not trained in Special Navigation Areas of Operation ("Special Use Airspace") from being assigned to these operations?	☐ YES If no or N/A, explain: ☐ NO ☐ N/A				
1.4 Is there a system in place that prevents airplanes that do not meet the requirements of Special Navigation Areas of Operation ("Special Use Airspace") from being assigned to these operations?	☐ YES If no or N/A, explain: ☐ NO ☐ N/A				
1.5 Is there a system in place that verifies the beginning of a Special Navigation Areas of Operation ("Special Use Airspace") route segment?	☐ YES If no or N/A, explain: ☐ NO ☐ N/A				
1.6 Is there a system in place to ensure that the airplane continues to meet the equipment requirements of Special Navigation Areas of Operation ("Special Use Airspace") prior to entering one of these route segments?	☐ YES If no or N/A, explain: ☐ NO ☐ N/A				

5.1.7 Special Navigation Areas of Operation				
SECTION 4 – CONTROL ATTRIBUTE				
1.7 Is there a system in place to verify that the Air Carrier continues to remain within the navigational requirements of Special Navigation Areas of Operation ("Special Use Airspace")?	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
2. Do the checks and restraints ensure the desired result is achieved for the Special Navigation Areas of Operation process?	YES If no, explain:			
3. Does the air carrier have a documented method for assessing the impacts of any changes made to checks and restraints in the Special Navigation Areas of Operation process?	YES If no, explain:			
4. Does the air carrier have the resources to support the checks and restraints for the Special Navigation Areas of Operation process?	YES If no, explain:			

5.1.7 Special Navigation Areas of Operation				
SECTION 5 - PROCESS MEASUREMENT ATTRIBUTE				
Objective: To determine if the air carrier measures and assesses the Special Navigation Areas of Operation ("Special Use Airspace") Program, to identify and correct problems or potential problems.				
To meet this objective, the inspector will accomplish the following tasks.				
1. Review the documented instructions and information related to the S Operation process.	pecial Navigation Areas of			
2. Discuss the Special Navigation Areas of Operation process with appunderstanding of the process measures.	ropriate personnel to gain an			
3. Observe the Special Navigation Areas of Operation process to gain a measures.	in understanding of the process			
To meet this objective, the inspector will answer the following questions	:			
1. <deleted></deleted>				
2. Does the air carrier's Special Navigation Areas of Operation process measurements?	include the following process			
2.1 Does the Air Carrier record all attempts to assign crewmembers who are not qualified in Special Navigation Areas of Operation ("Special Use Airspace" operations) to these operations?	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
2.2 Does the Air Carrier record all attempts to assign dispatchers who are not qualified in Special Navigation Areas of Operation ("Special Use Airspace" operations) to these operations?	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
2.3 Does the Air Carrier record all attempts to assign flight followers that are not trained in Special Navigation Areas of Operation ("Special Use Airspace" operations) to these operations?	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
2.4 Does the Air Carrier record when an attempt was made to assign airplanes that do not meet the requirements of Special Navigation Areas of Operation ("Special Use Airspace") to these operations?	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
2.5 Does the Air Carrier record all instances of navigational errors greater than those permitted in their Special Navigation Areas of Operation ("Special Use Airspace") authorization?	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
3. Does the air carrier document their process measurement methods and results?	☐ YES If no, explain: ☐ NO			
4. Are the air carrier's process measurement methods effective?	YES If no, explain: No			
5. Does the air carrier use their process measurement results to improve their programs?	YES If no, explain: No			
6. Are the process measurement results accessible to the FAA?	☐ YES If no, explain: ☐ NO			

5.1.7 Special Navigation Areas of Operation				
SECTION 5 - PROCESS MEASUREMENT ATTRIBUTE				
7.	Does the organization that conducts the process measurement have direct access to the person with responsibility for the Special Navigation Areas of Operation process?		YES No	If no, explain:
8.	Does the air carrier have the resources to support the process measurement for the Special Navigation Areas of Operation process?		YES No	If no, explain:

5.1.7 Special Navigation Areas of Operation				
SECTION 6 – INTERFACES ATTRIBUTE				
Objective: To determine if the air carrier identifies and manages the interactions between the Special Navigation Areas of Operation process and the other element processes within the air carrier organization.				
To meet this objective, the inspector will accomplish the following tasks:				
1. Review the documented instructions and information related to the S Operation process.				
Discuss the Special Navigation Areas of Operation process with apprunderstanding of the interfaces.				
3. Observe the Special Navigation Areas of Operation process to gain a interfaces.	n understanding of the			
To meet this objective, the inspector will answer the following questions:				
1. Are the following interfaces identified for the Special Navigation Are	eas of Operation process:			
1.1 Aircraft Airworthiness Requirements (Element 1.1.1)	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
1.2 Appropriate Operational Equipment (Element 1.1.3)	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
1.3 Airworthiness Release or Log Book Entry (Element 1.2.1)	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
1.4 Maintenance Log/Recording Requirements (Element 1.2.3)	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
1.5 Mechanical Interruption Summary (MIS) Reports (Element 1.2.4)	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
1.6 Mechanical Reliability Reports (MRR) (Element 1.2.5)	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
1.7 Maintenance Program (Element 1.3.1)	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
1.8 Inspection Program (Element 1.3.2)	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			
1.9 Required Inspection Item (RII) (Element 1.3.4)	☐ YES If no or N/A, explain: ☐ NO ☐ N/A			

5.1.7 Special Navigation Areas of Operation SECTION 6 – INTERFACES ATTRIBUTE				
1.10 MEL/CDL/Deferred Maintenance (Element 1.3.5)	☐ YES ☐ NO ☐ N/A	If no or N/A, explain:		
1.11 AD Management (Element 1.3.6)	YES NO N/A	If no or N/A, explain:		
1.12 Outsource Organization (Element 1.3.7)	YES NO N/A	If no or N/A, explain:		
1.13 Parts/Material Control/SUP (Element 1.3.10)	YES NO N/A	If no or N/A, explain:		
1.14 Continuous Analysis and Surveillance (Element 1.3.11)	☐ YES ☐ NO ☐ N/A	If no or N/A, explain:		
1.15 GMM/Equivalent (Element 1.3.14)	☐ YES ☐ NO ☐ N/A	If no or N/A, explain:		
1.16 Reliability Program (Element 1.3.15)	☐ YES ☐ NO ☐ N/A	If no or N/A, explain:		
1.17 Reduced Vertical Separation Minimum (RVSM) Authorization (Element 1.3.21)	☐ YES ☐ NO ☐ N/A	If no or N/A, explain:		
1.18 Airman Duties/Flight Deck Procedures (Element 3.1.3)	☐ YES ☐ NO ☐ N/A	If no or N/A, explain:		
1.19 Operational Control (Element 3.1.4)	☐ YES ☐ NO ☐ N/A	If no or N/A, explain:		
1.20 Aircraft Performance Operating Limitations (Element 3.1.9)	☐ YES ☐ NO ☐ N/A	If no or N/A, explain:		
1.21 Reduced Vertical Minimum Separation (RVMS) Authorization (Element 3.1.12)	YES NO N/A	If no or N/A, explain:		
1.22 Safety Program (Ground and Flight) (Element 3.1.16)	☐ YES ☐ NO ☐ N/A	If no or N/A, explain:		

5.1.7 Special Navigation Areas of Operation				
SECTION 6 – INTERFACES ATTRIBUTE				
1.23 Dispatch or Flight Release (Element 3.2.1)	☐ YES	If no or N/A, explain:		
	□ NO N/A			
1.24 MEL/CDL Procedures (Element 3.2.3)	☐ YES	If no or N/A, explain:		
	□ No			
1.25 Parsonnal Training and Parsonnal Qualifications (System	□ N/A	T0 27/4 2.4		
1.25 Personnel Training and Personnel Qualifications (System 4.0)	☐ YES ☐ NO	If no or N/A, explain:		
	□ N/A			
1.26 Route Structures (System 5.0)	☐ YES	If no or N/A, explain:		
	□ No			
1.27 Technical Administration (System 7.0)	☐ N/A YES	If no an N/A anniain.		
1.27 Technical Haministration (System 7.0)	No No	If no or N/A, explain:		
	□ N/A			
1.28 (Manual) Currency (Element 2.1.1)	☐ YES	If no or N/A, explain:		
	□ No			
1.29 Content Consistency Across Manuals (Element 2.1.2)	□ N/A □ YES	If no or N/A, explain:		
1.25 Content Consistency Heross Humans (Element 2.1.2)	□ No	ii no or N/A, explain:		
	□ N/A			
1.30 (Manual) Distribution (Element 2.1.3)	☐ YES	If no or N/A, explain:		
	□ No			
1.31 (Manual) Availability (Element 2.1.4)	☐ N/A YES	If no or N/A, explain:		
		ii no or 10/13, explain.		
	□ N/A			
2. List any additional interfaces identified:				
3. Are there written procedures for the use of air carrier personnel in	☐ YES	If no, explain:		
the application of these interfaces? 4. Are there controls to ensure that interfaces occur?	☐ No			
4. Are there controls to ensure that interfaces occur?	☐ YES ☐ NO	If no, explain:		
5. Are the interfaces between the Special Navigation Areas of	☐ YES	If no, explain:		
Operation process and other processes treated consistently in the Manual(s)?	□ No			